

CAPACITIVE SENSOR

ABSTRACT OF THE INVENTION

A capacitive sensor is disclosed that includes a variable capacitor transducer that varies its capacitance with changes in an environmental parameter. The present invention is adapted to measure any linear parameter such as pressure, force, or distance. The sensor of the present invention is compact, inexpensive to make, and easily fabricated using commonly available components. Furthermore, it is not susceptible to errors caused by vibration, acceleration, and its orientation to the earth's gravitational field. The output of the capacitive sensor does not substantially drift with changes in temperature.